

## Product datasheet for RC218251L3

## OriGene Technologies, Inc.

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## Sterol carrier protein 2 (SCP2) (NM\_001007100) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** Sterol carrier protein 2 (SCP2) (NM\_001007100) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

**Symbol:** Sterol carrier protein 2

Synonyms: NLTP; NSL-TP; SCOX; SCP-2; SCP-CHI; SCP-X; SCPX

Mammalian Cell Puromycin

Selection:

**Vector:** pLenti-C-Myc-DDK-P2A-Puro (PS100092)

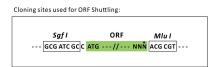
E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC218251).

Sgfl-Mlul

Sequence:

Restriction Sites: Cloning Scheme:





st The last codon before the Stop codon of the ORF.

ACCN: NM\_001007100

ORF Size: 420 bp



## Sterol carrier protein 2 (SCP2) (NM\_001007100) Human Tagged Lenti ORF Clone - RC218251L3

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:** 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

RefSeq: <u>NM 001007100.1</u>

**RefSeq Size:** 1438 bp

**RefSeq ORF:** 423 bp

**Locus ID:** 6342

 UniProt ID:
 P22307

 Cytogenetics:
 1p32.3

**Protein Pathways:** Metabolic pathways, PPAR signaling pathway, Primary bile acid biosynthesis

**MW:** 15.08 kDa

**Gene Summary:** This gene encodes two proteins: sterol carrier protein X (SCPx) and sterol carrier protein 2

(SCP2), as a result of transcription initiation from 2 independently regulated promoters. The transcript initiated from the proximal promoter encodes the longer SCPx protein, and the transcript initiated from the distal promoter encodes the shorter SCP2 protein, with the 2

proteins sharing a common C-terminus. Evidence suggests that the SCPx protein is a

peroxisome-associated thiolase that is involved in the oxidation of branched chain fatty acids, while the SCP2 protein is thought to be an intracellular lipid transfer protein. This gene is highly expressed in organs involved in lipid metabolism, and may play a role in Zellweger syndrome, in which cells are deficient in peroxisomes and have impaired bile acid synthesis. Alternative splicing of this gene produces multiple transcript variants, some encoding

different isoforms.[provided by RefSeq, Aug 2010]